



INDIANA DEPARTMENT OF HOMELAND SECURITY

302 W. Washington Street

Room E-208

Indianapolis, IN 46204

Leadership for a Safe and Secure Indiana



Essential Training - Handout

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*** OSHA 1910.156(b)(2)**

The employer shall assure that employees who are expected to do interior structural firefighting are physically capable of performing duties which may be assigned to them during emergencies.

*** OSHA 1910.156(b)(2)**

The **employer shall not permit** employees with known heart disease, epilepsy, emphysema, to participate in fire brigade emergency activities, **unless a physician's certificate of employees fitness** to participate in such is provided.

*** OSHA 1910.156 Training and Education (1)**

The **employer shall provide training and education** for all fire brigade members **commensurate with those duties and functions** that fire brigade members are expected to perform.

*** Such training and education** shall be provided to fire brigade members **before they perform** fire brigade emergency activities.

*** Fire brigade leaders and training instructors** shall be provided with training and education which is **more comprehensive** than that provided to the general membership of the fire brigade.

*** OSHA 1910.156 (c)(2)**

The employer shall assure that training and education is **conducted frequently enough to assure** that each member of the fire brigade is able to perform the member's assigned duties and functions **satisfactorily and in a safe manner** so as not to endanger fire brigade members or other employees.

*** All fire brigade members** shall be provided with **training at least annually**. In addition, fire brigade members who are expected to perform **interior structural firefighting** shall be provided with an education session **at least quarterly**.



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*** OSHA 1910.156 (c)(3)**

The **quality** of the training and education program for the brigade members **shall be similar** to those conducted by such fire training schools as Maryland Fire and Rescue Institute, Iowa Fire Service Extension, West Virginia Fire Service Extension, Georgia Fire Academy, New York State Department, Fire Prevention and Control, Louisiana State University Fireman Training Program, or Washington State's Fire Service Training Commission for Vocational Education.

* (For example, for the oil refinery industry, with its unique hazards, the training and education program for those fire brigade members shall be similar to those conducted by Texas A&M University, Lamar University, Reno Fire School or the Delaware State Fire School.

*** OSHA 1910.156 (c)(4)**

The employer shall **inform** fire brigade members about **special hazards** such as storage and use of flammable liquids and gases, toxic chemicals, radioactive sources and water reactive substances, to which they may be exposed during fire and other emergencies.

* The fire brigade members shall also be **advised of any changes** that occur in relation to the special hazards. The employer shall **develop and make available for inspection** by fire brigade members, written procedures that describe the actions to be taken in situations involving the special hazards and shall include these in the training and education program.

*** OSHA 1910.156 (d)**

Fire fighting equipment

The employer shall **maintain and inspect, at least annually**, fire fighting equipment to assure the safe operational condition of the equipment.

Portable fire extinguishers and respirators shall be inspected at least monthly. Fire fighting equipment that is in damaged or unserviceable condition shall be removed from service and replaced.

*** 655 IAC 1-3-5 Mandatory training program**

Sec. 5. The mandatory training program shall include firefighting personnel in fire departments in the following areas:

- (1) Full-time (paid/career) firefighters employed by political subdivisions.
- (2) Volunteer firefighters in volunteer fire companies.



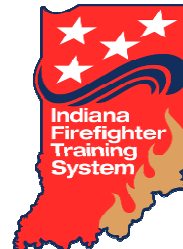
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*** 655 IAC 1-3-6 Entry into the program**

Sec. 6. (a) Any Indiana full-time fire fighter newly hired or rehired, shall successfully complete mandatory training prior to performing the duties of a full-time firefighter for a political subdivision.

(b) Any volunteer fire fighter shall successfully complete mandatory training before being elected or appointed to membership in a volunteer fire company.

*** 655 IAC 1-3-7 Certification by the board**

Sec. 7. The board shall certify applications from fire service personnel as having successfully completed mandatory training specified in IC 36-8-10.5, which are attested to by the signature of the fire chief of the fire department and by an instructor certified by the board.

*** Enforcement of Training Standards**

- OSHA
 - Complaint
 - Investigation after an accident
 - Fines and Sanctions
- Board of Firefighting Personnel Standards and Education
 - Complaint
 - Fines
 - Sanctions / revocation of certification
- State Fire Marshal
 - No authority
- Indiana Department of Homeland Security
 - Complaint
 - Fines
 - Sanctions / revocation of certification



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Defining YOUR FD Firefighter Task and Training Needs

- What the firefighter is expected to achieve?
 - Fire suppression?
 - Vehicle Extrication?
 - Automobile
 - Semi
 - School Bus
 - Water Rescue?
 - Diving
 - Ice
 - Hazardous Materials?
 - Response
 - Control
 - Cleanup
- What firefighters actually do to accomplish those goals?
- How firefighters are influenced by their physical environment?
- How firefighters' previous knowledge and experience influence how they think about their tasks and the system they follow to perform their tasks?
- What firefighters value most?

Techniques of Task Analysis

- Observation
- After Action
- Testing and Evaluation



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Workflow analysis

Analyzed to understand how a firefighter accomplishes a particular task.

Analysis is important because it allows investigators to identify which users are doing which tasks in a process.

A task analysis is not a single analysis, but rather a collection of many different analyses. A researcher must decide which analyses are needed, based on the amount of resources available, time, etc.

Task lists and inventories

A task list is an inventory of all the tasks that firefighters will want to accomplish within an evolution, sometimes includes additional tasks the Chief may want to include.

It is a list of what firefighters have to be able to accomplish, not how to accomplish those tasks.

Process analysis, task sequences

A task sequence is a series of tasks on the lists that firefighters must do, or are likely to do in a certain order. A task sequence is developed optimally through observation. It provides a picture of the steps firefighters must take to go through tasks.

Task hierarchies

A task analysis is hierarchical. A task hierarchy illustrates the tasks and subtasks of a process or activity. It seeks to deconstruct and decompose tasks into its smallest components. The best example of this process is that in order to advance a hoseline into a burning structure the firefighter must be able to don PPE and SCBA efficiently. One task builds upon another task.

Procedural analysis

One specific task that is divided into the steps and decisions that a firefighter completes goes through in doing that task. It illustrates how firefighters carry out their tasks with the tools currently available to them.



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Driver Task Analysis

- Open the overhead door at the station
- Don appropriate PPE
- Turn battery disconnect switch to on position
- Start the apparatus.
- Check for all riders to have seat belts on
 - Put on drivers seat belt
- Release parking brake
- Check overhead door (to make sure it is open all the way)
 - Check roadbook / computer for directions to dispatched address
 - Check for water supply location
- Don headset
 - Radio enroute
- Engage emergency lights
- Place transmission in gear for forward movement
- Check street conditions as you approach the road
 - Observe for vehicles and make sure they are stopping
 - Use warning devices appropriately
 - Come to a complete stop when approaching any controlled intersection
 - When approaching vehicles from the rear allow enough time for the driver to make the appropriate reaction.
- When approaching the scene observe for driveway / access issues.
 - Structure is set back from roadway
 - Physical condition of driveway / rock / concrete / blacktop /
 - Secure water supply
- Radio arriving
 - Give situation report
- Apparatus placement
 - Observe two sides



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- Adequate distance
- Set parking brake
- Engage pump
 - Switch
 - Transmission engaged
 - Check speedometer – at least 10 mph
- Etc.

